

## Assignment No. I

### **Subject:- Microcontroller for Embedded system**

#### **NEC-022R**

- Q.1 Draw and explain the functional block diagram of a microcontroller.
- Q.2 Discuss the advantages of microcontroller over microprocessor in control applications
- Q.3 Explain RISC and CISC processor.
- Q.4 Explain PSW of 8051 microcontroller with example for each bit.
- Q.5 Explain the Program Memory and Data Memory Organization of 8051 microcontroller.
- Q.6 Explain the Role of Stack and Stack Pointer in 8051 microcontroller.
- Q.7 Explain the function of following instruction
- (i) ALE                      (ii)  $\overline{\text{PSEN}}$                       (iii) EA
- Q8 Explain the 16-bit registers DPTR of 8051.
- Q.9 Explain with examples the PUSH and POP instructions.
- Q.10 Explain the Block diagram of 8051 microcontroller.